



Foundational Work to Improve the Energy Supply at Bugendana Socio-Pastoral Centre

Summary

Country	Burundi
Implementer	Archdiocese of Gitega
Target groups	Bugendana Socio-Pastoral Centre User of electricity provided by the PV system
Duration	03/2020 – 10/2020
Type of energy use	Electrification

Challenge

The Bugendana Socio-Pastoral Centre in Burundi (Archdiocese of Gitega), is located about 30 kilometers from the capital of Gitega Province. The Centre has a clinic, a rectory, a convent and a church, as well as a primary school. As the centre is not connected to the electricity grid, it has been acquiring autonomous photovoltaic systems since 2017. These systems have not provided sufficient power, a situation aggravated by plans to expand the centre with a secondary boarding school and a dormitory for teaching staff. To best utilise the existing assets and ensure a good understanding of what is required for an expansion of the energy supply, a study is conducted.

Impact Logic

The purpose of the study is to assess the current and future demand for electricity in contrast to the current installed assets. Based on this assessment, various scenarios are proposed to upgrade the existing system with a least-cost approach, taking into consideration the use of energy as well as energy efficiency opportunities. This results in a list of possible system upgrades to allow for various intervention approaches.

Based on the scenario overview, the system can be upgraded via other funds. This helps to lay the foundation for a lasting upgrade of the energy supply at the centre.

Innovative Project Elements

The innovation of the project is shown by its orientation to the real needs of the local church institution as well as the development of viable scenarios of power usage, related to the current and future energy supply. The sustainable use of the existing photovoltaic systems will guarantee the supply of the infrastructural services at the centre.

FURTHER INFORMATION

www.gruene-buergerenergie.org

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